EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4	"20020107019" or "6097731".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 06:46
L2	9523	prevent$3 with (los$3 adj5 (data or information))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 06:49
L3	0	l2 same (("logical link" or "LLC") with reset)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 06:51
L4	3	l2 and (("logical link" or "LLC") with reset)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 06:52
L5	3	l2 and (("logical link" or "LLC") same reset)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 06:52
L6	2	l2 and (switch$3 with (("GPRS" or "General Packet Radio Service") adj5 ("GSM" or "Global Systems")))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 08:06
L7	9	("GPRS" or "General Packet Radio Service") same (("logical link" or "LLC") with reset)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 08:06
L8	657	(switch$3 with (("GPRS" or "General Packet Radio Service") adj5 ("GSM" or "Global Systems")))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 08:06
L9	0	l8 same (("logical link" or "LLC") with reset)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 08:07

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L10	2	l8 and (("logical link" or "LLC") with reset)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 08:09
L11	8	l8 same ("logical link" or "LLC")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 08:12
L12	178	l8 and ("logical link" or "LLC")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 08:12
L13	1	l12 and l2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 08:13
L14	1	l12 and (prevent$3 same (los$3 adj5 (data or information)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 08:14
L15	349	713/160.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 08:14
L16	2287	370/466.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 08:14
L17	2395	370/328.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 08:15
L18	5923	370/401.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 08:15
L19	1897	370/331.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 08:15

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L20	847	455/452.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 08:15
L21	2924	707/2.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 08:15
L22	157	(l15 or l16 or l17 or l18 or l19 or l20 or l21) and (("GPRS" or "General Packet Radio Service") same ("logical link" or "LLC"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 08:17
L23	33	(l15 or l16 or l17 or l18 or l19 or l20 or l21) and ((switch$3 with ("GPRS" or "General Packet Radio Service")) same ("logical link" or "LLC"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/13 08:18

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Inventor Name Search Result

Your Search was:

Last Name = WANG
First Name = CHARLES

Application#	Patent#	Status	Date Filed	Title	Inventor Name
90006551	Not Issued	422	02/15/2003	FAUCET HANDLE FIXTURE	WANG(3RD PTY. REQ.), CHARLES
90007043	Not Issued	454	05/17/2004	TOOL HANDLE	WANG(3RD PTY. REQ.), CHARLES
90007513	Not Issued	451	04/22/2005	GEAR WHEEL	WANG(3RD PTY. REQ.), CHARLES
90007662	Not Issued	425	08/09/2005	GEAR WHEEL	WANG(3RD. PTY. REQ.), CHARLES
06329238	Not Issued	161	12/10/1981	EASY OPENING CAN WITH STRAW DEVICE	WANG, CHARLES
08511219	5645749	150	08/04/1995	HEAT PACK CAPABLE OF BEING RECHARGED BY MICROWAVE ENERGY	WANG, CHARLES
08524653	5724130	150	09/08/1995	TECHNIQUE FOR THE MEASUREMENT AND CALIBRATION OF ANGULAR POSITION	WANG, CHARLES
08667766	5768140	150	06/21/1996	RF-INTERROGATABLE PROCESSING SYSTEM	WANG, CHARLES
09094840	6128549	150	06/15/1998	RF INTERROGATABLE PROCESSING SYSTEM	WANG, CHARLES
09623437	6519043	250	09/05/2000	VECTOR MEASUREMENT FOR COORDINATE MEASURING MACHINE	WANG, CHARLES
09636683	6405102	150	08/11/2000	RF-interrogatable processing system	WANG, CHARLES
09717013	Not Issued	161	11/22/2000	Air purifier	WANG, CHARLES
09744203	6498653	150	06/05/2001	TOOL PATH MEASUREMENT	WANG, CHARLES
10091388	6775013	150	03/05/2002	METHOD AND APPARATUS FOR MEASURING DISPLACEMENT OR MOTION ERROR	WANG, CHARLES
10300255	6686856	150	11/20/2002	CLOCKING DOMAIN	WANG, CHARLES

				CONVERSION SYSTEM AND METHOD	
10545244	Not Issued	30	08/12/2005	Method for wlan exclusive downlink channel	WANG, CHARLES
10565139	Not Issued	30	01/19/2006	Method and apparatus for controlling credit based access (prepaid) to a wireless network	WANG, CHARLES
10692618	Not Issued	168	10/24/2003	Method and apparatus for bezier curve approximation data compression	WANG, CHARLES
10715693	Not Issued	30	11/18/2003	System and method of unacknowledged network layer service access point identifier (NSAPI) recovery in sub-network dependent convergence protocol (SNDCP) communication	WANG, CHARLES
10971770	Not Issued	30	10/22/2004	Method for transferring data in a wireless network	WANG, CHARLES
11186543	Not Issued	25	07/21/2005	Heat-stable concentrated milk product	WANG, CHARLES
11271389	Not Issued	30	11/10/2005	Disk drive suspension and flexure with doubly and differentially deflected frame	WANG, CHARLES
11439692	Not Issued	30	05/23/2006	Method for controlling the encoder output bit rate in a block-based video encoder, and corresponding video encoder apparatus	WANG, CHARLES
11494134	Not Issued	25	07/27/2006	Method and device for multimedia multicast transmission over a wireless network	WANG, CHARLES
60112101	Not Issued	159	12/14/1998	NON-CONTACT TOOL PATH MEASUREMENT TECHNIQUE	WANG, CHARLES
60122695	Not Issued	159	03/03/1999	VECTOR MEASUREMENT METHOD	WANG, CHARLES
60273904	Not Issued	159	03/07/2001	Laser axis of rotation measurement method and apparatus	WANG, CHARLES
60427239	Not Issued	159	11/19/2002	System and method of unacknowledged network layer service access point identifier recovery in subnetwork dependent convergence protocol communication	WANG, CHARLES
60590696	Not Issued	159	07/23/2004	Shelf-stable concentrated milk product	WANG, CHARLES
60695963	Not Issued	159	07/01/2005	Disk drive suspension and flexure with doubly and differentially	WANG, CHARLES

				deflected frame	
60925798	Not Issued	20	04/23/2007	Encoding/decoding method for enabling H.264/AVC compliant color bit depth scalability with non-linear inter-layer prediction	WANG, CHARLES
60926277	Not Issued	20	04/26/2007	Apparatus and method for content broadcasting	WANG, CHARLES
90006551	Not Issued	422	02/15/2003	FAUCET HANDLE FIXTURE	WANG, CHARLES
90007043	Not Issued	454	05/17/2004	TOOL HANDLE	WANG, CHARLES
90007513	Not Issued	451	04/22/2005	GEAR WHEEL	WANG, CHARLES
90007662	Not Issued	425	08/09/2005	GEAR WHEEL	WANG, CHARLES
10093681	6680648	150	03/08/2002	HIGH POWER AMPLIFIER PREDISTORTER SYSTEM	WANG, CHARLES C.
10462962	7142610	150	06/17/2003	M-ARY QUADRATURE AMPLITUDE MODULATION (QAM) BIT-BOUNDARY TURBO CODED SYSTEM	WANG, CHARLES C.
10462987	7142611	150	06/17/2003	M-ARY PHASE SHIFT KEYING (PSK) BIT-BOUNDARY TURBO CODED SYSTEM	WANG, CHARLES C.
10600310	Not Issued	94	06/20/2003	PARALLEL ORTHOGONAL FREQUENCY DIVISION MULTIPLEXED COMMUNICATION SYSTEM	WANG, CHARLES C.
10626975	Not Issued	161	07/25/2003	Universal straps for all ages and sizes: stretchable and continuously adjustable straps for adult incontinence garments	WANG, CHARLES C.
11732630	Not Issued	16	04/04/2007	Unequal hierarchical communications modulation method	WANG, CHARLES C.
60401112	Not Issued	159	08/05/2002	Stretchable and adjustable straps for adult incontinence garment	WANG, CHARLES C.
60425493	Not Issued	159	11/12/2002	Universal straps for all ages and sizes: stretchable and continuously adjustable straps for adult incontinence garments	WANG, CHARLES C.
06937158	4755049	150	12/02/1986	METHOD AND APPARATUS FOR MEASURING THE ION IMPLANT DOSAGE IN A SEMICONDUCTOR CRYSTAL	WANG, CHARLES C.
07113954	4890252	150	10/29/1987	LONG PERIOD PSEUDO RANDOM NUMBER SEQUENCE GENERATOR	WANG, CHARLES C.

07607574	5216427	150	11/01/1990	LAND-MOBILE SATELLITE COMMUNICATION SYSTEM	WANG, CHARLES C.
09182445	6014411	150	10/29/1998	REPETITIVE TURBO CODING COMMUNICATION METHOD	WANG, CHARLES C.
09182446	6044116	150	10/29/1998	ERROR-FLOOR MITIGATED AND REPETITIVE TURBO CODING COMMUNICATION SYSTEM	WANG, CHARLES C.
09182447	6028897	150	10/22/1998	ERROR-FLOOR MITIGATING TURBO CODE COMMUNICATION METHOD	WANG, CHARLES C.

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Inventor Name Search Result

Your Search was:

Last Name = WANG
First Name = CHARLES

Application#	Patent#	Status	Date Filed	Title	Inventor Name
07207676	4967063	150	06/16/1988	CHARGE CONTROLLED ADAPTIVE-OPTICS SYSTEM	WANG, CHARLES C. P.
07638381	5116126	150	01/07/1991	INTERFEROMETER REQUIRING NO CRITICAL COMPONENT ALIGNMENT	WANG, CHARLES C. P.
60091237	Not Issued	159	06/30/1998	LASER DIAGONAL MEASUREMENT TECHNIQUE FOR THE DETERMINATION OF DISPLACEMENT, STRAIGHTNESS AND SQUARENESS OF MACHINE TOOL AND OTHER MACHINES	WANG, CHARLES CHANG-PING
10206683	7127428	150	07/26/2002	DYNAMIC BUSINESS RELATIONSHIP ESTABLISHMENT IN A PUBLIC WIRELESS LAN ENVIRONMENT	WANG, CHARLES CHAUNMING
10277039	7127000	150	10/21/2002	TURBO DECODING SYSTEM USING NTH ROOT METRICS FOR NON-GAUSSIAN COMMUNICATION CHANNELS	WANG, CHARLES CHIMING
09908134	7032238	150	07/18/2001	REAL-TIME AUTOLEVELING SYSTEM	WANG, CHARLES CHUANMING
10099635	Not Issued	161	03/15/2002	Method and apparatus for targeting service delivery to mobile devices	WANG, CHARLES CHUANMING
10183081	6954793	150	06/27/2002	PRE-PAID DATA CARD AUTHENTICATION IN A PUBLIC WIRELESS LAN ACCESS SYSTEM	WANG, CHARLES CHUANMING
10243228	6754194	150	09/13/2002	METHOD AND APPARATUS FOR INDICATING THE PRESENCE OF A WIRELESS LOCAL AREA NETWORK BY DETECTING SIGNATURE	WANG, CHARLES CHUANMING

				SEQUENCES	
10243905	Not Issued	161	09/13/2002	Method and apparatus for detecting the presence of a wireless local area network using a position location system	WANG, CHARLES CHUANMING
10246263	Not Issued	161	09/18/2002	Method and apparatus for indicating the presence of a wireless local area network by detecting energy fluctuations	WANG, CHARLES CHUANMING
10340477	6956871	150	01/10/2003	APPARATUS AND METHOD FOR SYNCHRONIZATION OF AUDIO AND VIDEO STREAMS	WANG, CHARLES CHUANMING
10361396	7161957	150	02/10/2003	VIDEO PACKETS OVER A WIRELESS LINK UNDER VARYING DELAY AND BANDWIDTH CONDITIONS	WANG, CHARLES CHUANMING
10498740	Not Issued	30	10/26/2004	Method and system for providing a private conversation channel in a video conference system	WANG, CHARLES CHUANMING
10511641	Not Issued	30	10/18/2004	Wireless local area network (wlan) as a public land mobile network for wlan/telecommunications system interworking	WANG, CHARLES CHUANMING
10512506	Not Issued	30	10/26/2004	Certificate based authentication authorization accounting scheme for loose coupling interworking	WANG, CHARLES CHUANMING
10514311	Not Issued	41	11/12/2004	Seamless public wireless local area network user authentication	WANG, CHARLES CHUANMING
10517131	Not Issued	30	12/06/2004	Inter working function (iwf) as logical radio network controller (rnc) for hybrid coupling in an interworking between wlan and a mobile communications network	WANG, CHARLES CHUANMING
10517132	Not Issued	30	12/06/2004	Internetworking between wlan and a mobile communications system	WANG, CHARLES CHUANMING
10517466	Not Issued	41	12/06/2004	Interfacing a wlan with a mobile communications system	WANG, CHARLES CHUANMING
10518581	7046998	150	12/21/2004	MULTIMEDIA CONTENT DELIVERY THROUGH WLAN COVERAGE AREA	WANG, CHARLES CHUANMING
10518996	Not Issued	41	12/21/2004	Registration of a wlan as a umts routing area for wlan-umts interworking	WANG, CHARLES CHUANMING
10524177	7215943	150	01/20/2006	MOBILE TERMINAL IDENTITY PROTECTION THROUGH HOME LOCATION	WANG, CHARLES CHUANMING

				REGISTER MODIFICATION	
10524183	7065358	150	02/10/2005	IDENTITY PROTECTION IN A LAN-UNIVERSAL RADIOTELEPHONE SYSTEM	WANG, CHARLES CHUANMING
10541930	Not Issued	30	07/11/2005	Method and an apparatus for mapping an mpeg transport stream into ip packets for wlan broadcast	WANG, CHARLES CHUANMING
10564253	Not Issued	30	01/10/2006	Technique for video broadcasting in wireless lan	WANG, CHARLES CHUANMING
11652755	Not Issued	30	01/12/2007	Method for the exchange of data packets in a network of distributed stations, device for compression of data packets and device for decompression of data packets	WANG, CHARLES CHUANMING
60219354	Not Issued	159	07/19/2000	Real-time autoleveling system	WANG, CHARLES CHUANMING
60341799	Not Issued	159	12/15/2001	Method and system for providing a private conversation channel in a videoconferencing system	WANG, CHARLES CHUANMING
60365342	Not Issued	159	03/18/2002	Method for GPS-based wireless LAN detection for mobile devices	WANG, CHARLES CHUANMING
60365345	Not Issued	159	03/18/2002	Method for user-initiated disabling of the LAN-scanning capability on a mobile device	WANG, CHARLES CHUANMING
60365347	Not Issued	159	03/18/2002	LANscanner -- a simple method to detect the presence of wireless LANs	WANG, CHARLES CHUANMING
60373197	Not Issued	159	04/17/2002	WLAN as a logical PLMN for WLAN-UMTS interworking	WANG, CHARLES CHUANMING
60374269	Not Issued	159	04/19/2002	Apparatus and method for synchronization of audio and video streams	WANG, CHARLES CHUANMING
60376100	Not Issued	159	04/26/2002	Certificate based AAA scheme for loose coupling interworking	WANG, CHARLES CHUANMING
60378029	Not Issued	159	05/13/2002	Seamless public wireless LAN user authentication using web browser and IEEE 802.1X	WANG, CHARLES CHUANMING
60378030	Not Issued	159	05/13/2002	Dynamic business relationship establishment in a public wireless LAN environment	WANG, CHARLES CHUANMING
60378031	Not Issued	159	05/13/2002	Pre-paid data card authentication in a public wireless LAN access system	WANG, CHARLES CHUANMING
60386319	Not Issued	159	06/06/2002	WLAN as a logical SGSN for WLAN-UMTS interworking	WANG, CHARLES CHUANMING
60386546	Not	159	06/06/2002	WLAN as a logical SGSN for	WANG, CHARLES

	Issued			hybrid coupling in WLAN-UMTS interworking	CHUANMING
60390633	Not Issued	159	06/21/2002	Localized TV programming based on customer dynamic requests	WANG, CHARLES CHUANMING
60390811	Not Issued	159	06/21/2002	Registration of the WLAN as a UMTS routing area for WLAN-UMTS interworking	WANG, CHARLES CHUANMING
60390837	Not Issued	159	06/21/2002	Multimedia content delivery through WLAN coverage areas using UMTS/GPRS program guide	WANG, CHARLES CHUANMING
60403158	Not Issued	159	08/13/2002	UE identity protection through HLR modification	WANG, CHARLES CHUANMING
60403159	Not Issued	159	08/13/2002	UE indentity protection in WLAN-UMTS interworking using SGSN	WANG, CHARLES CHUANMING
60439093	Not Issued	159	01/09/2003	Mapping a transport stream into IP packets for WLAN broadcasting services	WANG, CHARLES CHUANMING
60450912	Not Issued	159	02/28/2003	Method for implementing an exclusive downlink channel for IEEE 802.11 WLAN	WANG, CHARLES CHUANMING
60489307	Not Issued	159	07/22/2003	Method and apparatus for controlling credit based access of a wireless LAN	WANG, CHARLES CHUANMING
60529493	Not Issued	159	12/15/2003	Using packet processing capabilities of network elements for statistical multiplexing of content	WANG, CHARLES CHUANMING
60705621	Not Issued	159	08/04/2005	Feedback control for adaptive video delivery	WANG, CHARLES CHUANMING

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Application#	Patent#	Status	Date Filed	Title	Inventor Name
60752152	Not Issued	159	12/20/2005	Bandwidth sharing in a statistical multiplexer for real-time and best-effort traffics	WANG, CHARLES CHUANMING
60386638	Not Issued	159	06/06/2002	WLAN as logical RNC for hybrid coupling in WLAN-UMTS interworking	WANG, CHARLES CHUANMING
10021133	6836852	150	10/29/2001	METHOD FOR SYNCHRONIZING MULTIPLE SERIAL DATA STREAMS USING A PLURALITY OF CLOCK SIGNALS.	WANG, CHARLES L.
09364481	6192093	150	07/30/1999	ENHANCED CIMT CODING SYSTEM AND METHOD WITH AUTOMATIC WORD ALIGNMENT FOR SIMPLEX OPERATION	WANG, CHARLES L.
09972342	Not Issued	41	10/06/2001	Information system using eyewear for communication	WANG, CHARLES N.
09972478	6729726	150	10/06/2001	EYEWEAR FOR HANDS-FREE COMMUNICATION	WANG, CHARLES N.
09972479	6641261	150	10/06/2001	LENS FOR VISION ENHANCEMENT	WANG, CHARLES N.
10772594	Not Issued	161	02/04/2004	Two-and three-dimensional video image system	WANG, CHARLES N.
60445283	Not Issued	159	02/04/2003	Two- and three-dimensional video image system	WANG, CHARLES N.
06920660	4715706	150	10/20/1986	LASER DOPPLER DISPLACEMENT MEASURING SYSTEM AND APPARATUS	WANG, CHARLES P.
07591413	Not Issued	161	10/01/1990	APPARATUS FOR MEASURING HIGH FREQUENCY VIBRATIONS OR MOTION	WANG, CHARLES P.
07980578	Not	161	11/23/1992	A TECHNIQUE FOR THE	WANG, CHARLES P.

	Issued			MEASUREMENT AND CALIBRATION OF ANGULAR POSITIONS	
08043367	5394233	150	04/06/1993	APPARATUS FOR MEASURING HIGH FREQUENCY VIBRATION, MOTION, OR DISPLACEMENT	WANG, CHARLES P.
08214986	5471304	150	03/21/1994	LASER POSITIONING METHOD AND APPARATUS FOR ROTARY ACTUATOR ARMS, AND THE LIKE	WANG, CHARLES P.
10001681	6683893	150	10/25/2001	Q-SWITCHING METHOD FOR PULSE TRAIN GENERATION	WANG, CHARLES X.
10303392	Not Issued	168	11/25/2002	Frequency multipled laser including borate crystal having protective coating	WANG, CHARLES X.
10798019	Not Issued	160	03/11/2004	Frequency multipled laser including borate crystal having protective coating	WANG, CHARLES X.
10413103	6931035	150	04/14/2003	Q-SWITCHING METHOD FOR PULSE TRAIN GENERATION	WANG, CHARLES XIAOYI
10958935	Not Issued	95	10/05/2004	STABILIZED FREQUENCY-CONVERTED LASER SYSTEM	WANG, CHARLES XIAOYI
11586987	Not Issued	25	10/25/2006	Output power control for harmonic-generating laser	WANG, CHARLES XIAOYI
09416354	6414980	150	10/12/1999	LASER ROD THERMALIZATION	WANG, CHARLES XIAOYI
10866265	7137744	150	06/14/2004	FIBER OPTIC TRANSCEIVER MODULE WITH RIGID AND FLEXIBLE CIRCUIT BOARDS	WANG, CHARLES XIAOZHONG
29208957	D513252	150	07/08/2004	ELECTRO-OPTICAL CONVERTER	WANG, CHARLES XIAOZHONG
06826267	Not Issued	166	02/05/1986	CAGE-CULTURE TURBIDOSTAT	WANGERSKY, CHARLES P.
07469726	5057432	150	01/24/1990	CAGE-CULTURE TURBIDOSTAT	WANGERSKY, CHARLES P.

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1 Papers: Cellular IP: a new approach to Internet host mobility



András G. Valkó
January 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 1
Publisher: ACM Press
Full text available: pdf(1.35 MB) Additional Information: full citation, abstract, references, citings

This paper describes a new approach to Internet host mobility. We argue that by separating local and wide area mobility, the performance of existing mobile host protocols (e.g. Mobile IP) can be significantly improved. We propose Cellular IP, a new lightweight and robust protocol that is optimized to support local mobility but efficiently interworks with Mobile IP to provide wide area mobility support. Cellular IP shows great benefit in comparison to existing host mobility proposals for environm ...

2 IP-based services over GPRS



Vikrant A. Chitre, John N. Daigle
December 2000 **ACM SIGMETRICS Performance Evaluation Review**, Volume 28 Issue 3
Publisher: ACM Press
Full text available: pdf(806.45 KB) Additional Information: full citation, abstract, citings, index terms

The utility of mobile computing in the future will be determined to a large degree by the quality of service achievable over cellular based systems. In this paper, we examine the traffic-handling capabilities of General Packet Radio Service (GPRS) with respect to supporting IP-based Internet services. We begin with an overview of GPRS. We then present an analytical model to assess throughput of the reverse link as a function of the number of users connected and the distribution of user message l ...

Keywords: IP over wireless, cellular data service, performance, queues with contention

3 End-to-end adaptive QoS provisioning over GPRS wireless mobile network

Oliver T. W. Yu
June 2003 **Mobile Networks and Applications**, Volume 8 Issue 3
Publisher: Kluwer Academic Publishers
Full text available: pdf(290.46 KB) Additional Information: full citation, abstract, references, index terms

The General Packet Radio Service (GPRS) offers performance guaranteed packet data services to mobile users over wireless frequency-division duplex links with time division multiple access, and core packet data networks. This paper presents a dynamic adaptive guaranteed Quality-of-Service (QoS) provisioning scheme over GPRS wireless mobile links by proposing a guaranteed QoS media access control (GQ-MAC) protocol and an accompanying adaptive prioritized-handoff call admission control (AP-CAC) pro ...

Keywords: GPRS, end-to-end QoS provisioning, mobile label-switching tree, prioritized-handoff call admission control (CAC), wireless media access control (MAC)

4 Pricing differentiated services in the GPRS environment

Sergios Soursos, Costas Courcoubetis, George C. Polyzos
July 2003 **Wireless Networks**, Volume 9 Issue 4
Publisher: Kluwer Academic Publishers

Full text available: pdf(916.31 KB) Additional Information: full citation, abstract, references, citings, index terms

The General Packet Radio Service extends the existing GSM mobile communications technology by providing packet switching and higher data rates in order to efficiently access IP-based services in the Internet. We adapt the Differentiated Services Quality-of-Service support framework and apply it over the GPRS air interface in order to provide various levels of service differentiation. We also focus on applying a charging technique so as to publish a unit price for each service class. These prices ...

Keywords: GPRS, QoS, congestion pricing, differentiated services, two-bit differentiation

5 Modelling and performance evaluation of mobile multimedia systems using QoS-GSPN

Tony Tsang
November 2003 **Wireless Networks**, Volume 9 Issue 6
Publisher: Kluwer Academic Publishers
Full text available: pdf(200.92 KB) Additional Information: full citation, abstract, references, index terms

Quality of Service (QoS) measurement of multimedia applications is one of the most important issues for call handoff and call admission control in mobile networks. Based on the QoS measures, we propose a Generalized Stochastic Petri Net (GSPN) based model, called QoS-GSPN, which can express the real-time behavior of QoS measurement for mobile networks. QoS-GSPN performance analysis methodology includes the formal expression and performance analysis environment. It offers the promise of providing ...

Keywords: QoS, QoS-GSPN, mobile system, multimedia system

6 Pricing differentiated services in the GPRS environment

Sergios Soursos, Costas Courcoubetis, George Polyzos
July 2001 **Proceedings of the first workshop on Wireless mobile internet WMI '01**
Publisher: ACM Press
Full text available: pdf(645.04 KB) Additional Information: full citation, abstract, references, index terms

The General Packet Radio Service extends the existing GSM mobile communications technology by providing packet switching and higher data rates in order to efficiently access IP-based services in the Internet. Since no realization path for Quality-of-Service support has been proposed yet, we adapt the Differentiated Services framework and apply it over the GPRS air interface in order to provide various levels of service differentiation. We also focus on applying a charging technique so as ...

Keywords: GPRS, congestion pricing, differentiated services, tatonnement, two-bit differentiation

7 Advanced Packet Data Testing with Linux

Wesley Erhart, Joseph Bell, Marc Hammons, Mark Mains
January 2000 **Linux Journal**
Publisher: Specialized Systems Consultants, Inc.
Full text available: Additional Information:

html(26.12 KB) full citation, abstract, references, index terms

At Nortel Networks, we have developed a Linux-based system for testing a second-generation packet radio service. During system development we explored the details of packet radio, the IP internals of the Linux oper

8 Effects of circuit switched transmissions over GPRS performance

Wessam Ajib, Philippe Godlewski

August 2000 **Proceedings of the 3rd ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems MSWIM '00**

Publisher: ACM Press

Full text available: pdf(589.33 KB) Additional Information: full citation, abstract, references, index terms

This paper investigates the effect of circuit switched transmissions over General Packet Radio Service (GPRS) performance. GPRS is an additional GSM service, which provides packet switched data services over GSM network and a packet access to data networks. Radio resources, available in a GSM cell, are shared dynamically between GPRS and GSM circuit switched services and the physical channels associated to GPRS are called Packet Data Channels (PDCH). In this paper, we propose new pr ...

9 Application to communication systems: An Erlang-like law for GPRS/EDGE engineering and its first validation on live traffic

Georges Nogueira, Bruno Baynat, Ahmed Ziram

October 2006 **Proceedings of the 1st international conference on Performance evaluation methodolgies and tools valuetools '06**

Publisher: ACM Press

Full text available: pdf(336.80 KB) Additional Information: full citation, abstract, references, index terms

This paper is a contribution to the generic problem of having a simple and accurate analytical model to dimension GSM/(E)GPRS radio cells where voice and data traffic are mixed. Radio resources are assumed to be shared according to the so-called Partial Partitioning scheme where some channels are dedicated to voice, others to data, and the remaining are shared by voice and data. Voice has a total preemption priority over data on the shared part. This work shows how to calibrate an Erlang-like la ...

Keywords: EDGE, Erlang, GPRS, Markov chain, measurement, modeling, performance evaluation

10 Optimizing the end-to-end performance of reliable flows over wireless links

Reiner Ludwig, Almudena Konrad, Anthony D. Joseph, Randy H. Katz

March 2002 **Wireless Networks**, Volume 8 Issue 2/3

Publisher: Kluwer Academic Publishers

Full text available: pdf(230.41 KB) Additional Information: full citation, abstract, references, citings, index terms

Pure end-to-end error recovery fails as a general solution to optimize throughput when wireless links form parts of the end-to-end path. It can lead to decreased end-to-end throughput, an unfair load on best-effort networks, and a waste of valuable radio resources. Link layer error recovery over wireless links is essential for reliable flows to avoid these problems. We demonstrate this through an analysis of a large set of block erasure traces measured in different real-world radio environments, ...

Keywords: TCP, flow differentiation, link ARQ persistency, wireless

11 All-IPv6 service interworking gateway

Jiann-Liang Chen, Wen-Hao Chen, Sy-Yen Kuo

March 2005 **International Journal of Network Management**, Volume 15 Issue 2

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(1.27 MB) Additional Information: full citation, abstract, references, index terms

Improvements of inter-operability, interface IP and dual mobility function must be investigated to move toward full IP and seamless multimedia applications. An All-IPv6 service architecture that consists of cellular systems and Wireless LAN networks has been constructed. A GPRS/WLAN interworking gateway with an IPv6 facility has been designed and its performance examined in terms of queue length, system throughput, loss rate and delay. The results of the simulation of a 1Mbps WLAN and 144kbps GP ...

12 A Markov-based channel model algorithm for wireless networks

Almudena Konrad, Ben Y. Zhao, Anthony D. Joseph, Reiner Ludwig
May 2003 **Wireless Networks**, Volume 9 Issue 3
Publisher: Kluwer Academic Publishers

Full text available: pdf(189.42 KB) Additional Information: full citation, abstract, references, citings, index terms

Techniques for modeling and simulating channel conditions play an essential role in understanding network protocol and application behavior. In [11], we demonstrated that inaccurate modeling using a traditional analytical model yielded suboptimal error control protocol parameters choices. In this paper, we demonstrate that time-varying effects on wireless channels result in wireless traces which exhibit non-stationary behavior over small window sizes. We then present an algorithm that extracts s ...

Keywords: GSM, Markov model, error statistics, modeling, wireless channel

13 Performance evaluation of UDP lite for cellular video

Amoolya Singh, Almudena Konrad, Anthony D. Joseph
January 2001 **Proceedings of the 11th international workshop on Network and operating systems support for digital audio and video NOSSDAV '01**
Publisher: ACM Press

Full text available: pdf(308.36 KB) Additional Information: full citation, abstract, references, citings, index terms

The current generation of wireless links pose a significant challenge for sending video streams, as these links have low bit rate and high error rate compared to wired links. Sending high bit rate delay-sensitive traffic over wireless links requires appropriate error resilient video compression algorithms and transport/link layer protocols. We have built a wireless video system using an off-the-shelf error resilient low bit rate video codec with our implementations of UDP Lite and PPP Li ...

14 Optimizing the end-to-end performance of reliable flows over wireless links

Reiner Ludwig, Almudena Konrad, Anthony D. Joseph
August 1999 **Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and networking MobiCom '99**
Publisher: ACM Press

Full text available: pdf(857.28 KB) Additional Information: full citation, references, citings, index terms

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Relevance scale

1 Wireless convergence architecture: a case study using GSM and wireless LAN
Nikos A. Nikolaou, Konstantinos G. Vaxevanakis, Sotirios I. Maniatis, Iakovos S. Venieris, Nicholas A. Zervos
August 2002 **Mobile Networks and Applications**, Volume 7 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: pdf(341.11 KB) Additional Information: full citation, abstract, references, index terms

The evolution of wireless networks has motivated the expansion of the static business environment to a mobile and wireless one. However, current and forthcoming wireless technologies are characterized by different attributes, regarding coverage area, offered bandwidth and delay. The transparent conjunction of various wireless technologies into a single mobile terminal can further boost the wireless explosion. This paper presents the Wireless Convergence Architecture (WCA) that incorporates diffe ...

Keywords: GSM, TCP/IP, mobility, wireless LAN, wireless networks convergence

2 A simplified EM algorithm for detection of CPM signals in a fading multipath channel
Linda M. Zeger, Hisashi Kobayashi
November 2002 **Wireless Networks**, Volume 8 Issue 6
Publisher: Kluwer Academic Publishers
Full text available: pdf(181.83 KB) Additional Information: full citation, abstract, references, index terms

Application of the EM (Expectation-Maximization) algorithm to sequence estimation in an unknown channel can in principle produce MLSE (maximum likelihood sequence estimates) that are not dependent on a particular channel estimate. The Expectation step of this algorithm cannot be directly performed for continuous phase modulated (CPM) signals transmitted in a time varying multipath channel. We therefore derive a simplification of the EM algorithm for CPM signals in this channel. Simulations appli ...

Keywords: EM algorithm, mobile communication, multipath channels, sequence estimation

3 Pricing differentiated services in the GPRS environment
Sergios Soursos, Costas Courcoubetis, George Polyzos
July 2001 **Proceedings of the first workshop on Wireless mobile internet WMI '01**
Publisher: ACM Press
Full text available: pdf(645.04 KB) Additional Information: full citation, abstract, references, index terms

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Keywords: GPRS, congestion pricing, differentiated services, tatonnement, two-bit differentiation

4 IP-based services over GPRS

Vikrant A. Chitre, John N. Daigle

December 2000 **ACM SIGMETRICS Performance Evaluation Review**, Volume 28 Issue 3

Publisher: ACM Press

Full text available: pdf(806.45 KB) Additional Information: full citation, abstract, citings, index terms

The utility of mobile computing in the future will be determined to a large degree by the quality of service achievable over cellular based systems. In this paper, we examine the traffic-handling capabilities of General Packet Radio Service (GPRS) with respect to supporting IP-based Internet services. We begin with an overview of GPRS. We then present an analytical model to assess throughput of the reverse link as a function of the number of users connected and the distribution of user message l ...

Keywords: IP over wireless, cellular data service, performance, queues with contention

5 Effects of circuit switched transmissions over GPRS performance

Wessam Ajib, Philippe Godlewski

August 2000 **Proceedings of the 3rd ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems MSWIM '00**

Publisher: ACM Press

Full text available: pdf(589.33 KB) Additional Information: full citation, abstract, references, index terms

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6 Advanced Packet Data Testing with Linux

Wesley Erhart, Joseph Bell, Marc Hammons, Mark Mains

January 2000 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(26.12 KB) Additional Information: full citation, abstract, references, index terms

At Nortel Networks, we have developed a Linux-based system for testing a second-generation packet radio service. During system development we explored the details of packet radio, the IP internals of the Linux oper

7 MEP: a media event platform

Daniel Olsson, Andreas Nilsson

June 2002 **Mobile Networks and Applications**, Volume 7 Issue 3

Publisher: Kluwer Academic Publishers

Full text available: pdf(224.85 KB) Additional Information: full citation, abstract, references, citings, index terms

Popular media events of today are likely to attract a big, live audience. Being part of a huge cricket audience, for example, knowing that the event is broadcast to perhaps millions of people, is a truly arousing experience. But the size of the audience and the

complexity of events do not come without drawbacks. Spectators find it difficult to be at the right spot at the right time and to grasp the essentials of the on goings. We introduce a Media Event Platform, which combines various sources o ...

Keywords: events, media platform, mobile commerce, mobility

8 A prioritized real-time wireless call degradation framework for optimal call mix selection

Gergely V. Záruba, Imrich Chlamtac, Sajal K. Das
April 2002 **Mobile Networks and Applications**, Volume 7 Issue 2
Publisher: Kluwer Academic Publishers

Full text available: pdf(173.57 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a framework for selecting the optimal call mix to be admitted while employing a bandwidth degradation policy in a wireless cellular network. The optimal property is achieved by maximizing the revenue generated by different calls in a cell for the service provider. By *degradation,* we mean that: (1) some channels can be taken away from ongoing calls that are assigned multiple channels, and/or (2) newly admitted calls that require multiple channels get fewer than what th ...

Keywords: admission control, call degradation, simulated annealing, wireless cellular networks

9 An integrated admission-degradation framework for optimizing real-time call mix in wireless cellular networks

Gergely Záruba, Imrich Chlamtac, Sajal K. Das
August 2000 **Proceedings of the 3rd ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems MSWIM '00**
Publisher: ACM Press

Full text available: pdf(789.35 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes an integrated framework for selecting optimal call mixes (in a multimedia traffic scenario) by bandwidth degradation in a wireless cellular network, to maximize the revenue earned by the service provider. Each admitted call in our framework generates a revenue for the service provider based on the parameters of the call. The sum of the revenues generated by all admitted calls at a time is considered as the total revenue earned in a cell. By degradation, ...

Keywords: admission control, call degradation, cellular systems, framework

10 Virtual reality, digital media, and computer games: The structuring of a wireless internet application for a music-on-demand service on UMST devices

Marco Roccetti, Vittorio Ghini, Paola Salomoni, Alessandro Gambetti, Davide Melandri, Mirko Piaggesi, Daniela Salsi
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing SAC '02**
Publisher: ACM Press

Full text available: pdf(858.84 KB) Additional Information: full citation, abstract, references, citings, index terms

Developing enhanced wireless Internet applications is becoming one of the upcoming challenges for mobile radio networks operators. In this paper we introduce and discuss the general software architecture of a wireless Internet-based application we have designed and implemented to support the distribution of Mp3-based musical songs to UMTS devices. We have examined the effects that Internet traffic has on the performance of wireless UMTS networks, due to the distribution of Mp3 files by means of ...

Keywords: UMTS, digital media on UMTS devices, music on demand, performance evaluation, wireless multimedia applications

11 Performance modeling and analysis: Performance analysis of time-enhanced UML diagrams based on stochastic processes

Christoph Lindemann, Axel Thümmler, Alexander Klemm, Marco Lohmann, Oliver P. Waldhorst

July 2002 **Proceedings of the 3rd international workshop on Software and performance WOSP '02**

Publisher: ACM Press

Full text available: pdf(418.80 KB) Additional Information: full citation, abstract, references, citings

In this paper, we propose extensions to UML state diagrams and activity diagrams in order to allow the association of events with exponentially distributed and deterministic delays. We present an efficient algorithm for the state space generation out of these UML diagrams that allows a quantitative analysis by means of an underlying stochastic process. We identify a particular stochastic process, the generalized semi-Markov process (GSMP), as the appropriate vehicle on which quantitative analysi ...

Keywords: QoS performance modeling, model evaluation techniques, tools and techniques, transient and steady-state analysis of generalized semi-Markov processes

12 Analytical comparison of different GPRS introduction strategies

M. Ermel, K. Begain, T. Müller, J. Schüler, M. Schweigel

August 2000 **Proceedings of the 3rd ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems MSWIM '00**

Publisher: ACM Press

Full text available: pdf(731.68 KB) Additional Information: full citation, abstract, references, citings, index terms

The ongoing introduction of GPRS services in existing GSM networks by mobile network providers raises the question of the best strategy to partition the available cell capacity. The paper describes three different strategies — complete partitioning, partial sharing and complete sharing. An analytical call/burst level model of one cell of a homogeneous multiservice GSM/GPRS network is used to investigate these strategies with respect to important performance measures like new a ...

13 Optimizing the end-to-end performance of reliable flows over wireless links

Reiner Ludwig, Almudena Konrad, Anthony D. Joseph, Randy H. Katz

March 2002 **Wireless Networks**, Volume 8 Issue 2/3

Publisher: Kluwer Academic Publishers

Full text available: pdf(230.41 KB) Additional Information: full citation, abstract, references, citings, index terms

Pure end-to-end error recovery fails as a general solution to optimize throughput when wireless links form parts of the end-to-end path. It can lead to decreased end-to-end throughput, an unfair load on best-effort networks, and a waste of valuable radio resources. Link layer error recovery over wireless links is essential for reliable flows to avoid these problems. We demonstrate this through an analysis of a large set of block erasure traces measured in different real-world radio environments, ...

Keywords: TCP, flow differentiation, link ARQ persistency, wireless

14 Optimizing the end-to-end performance of reliable flows over wireless links

Reiner Ludwig, Almudena Konrad, Anthony D. Joseph

August 1999 **Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and networking MobiCom '99**

Publisher: ACM Press

Full text available: pdf(857.28 KB) Additional Information: full citation, references, citings, index terms

15 QoS of internet access with GPRS

Dirk Staehle, Kenji Leibnitz, Konstantin Tsipotis

July 2001 **Proceedings of the 4th ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems MSWIM '01**

Publisher: ACM Press

Full text available: pdf(666.97 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we examine the effects of Internet traffic on the quality of service (QoS) in GPRS wireless networks. With a stochastic source traffic model describing the user behavior, we will derive subjective and objective quality of service measures in terms of WWW downloading time and the transmission bandwidths on TCP and TBF level. Comparing the obtained values with wireline network modems and ISDN yields a slowdown factor which indicates the subjective degradation that the wireless use ...

16 Performance evaluation of UDP lite for cellular video

Amoolya Singh, Almudena Konrad, Anthony D. Joseph

January 2001 **Proceedings of the 11th international workshop on Network and operating systems support for digital audio and video NOSSDAV '01**

Publisher: ACM Press

Full text available: pdf(308.36 KB) Additional Information: full citation, abstract, references, citings, index terms

The current generation of wireless links pose a significant challenge for sending video streams, as these links have low bit rate and high error rate compared to wired links. Sending high bit rate delay-sensitive traffic over wireless links requires appropriate error resilient video compression algorithms and transport/link layer protocols. We have built a wireless video system using an off-the-shelf error resilient low bit rate video codec with our implementations of UDP Lite and PPP Li ...

17 GPRS and UMTS release 2000 A11-IP option

Jonne Soininen

July 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 3

Publisher: ACM Press

Full text available: pdf(1.47 MB) Additional Information: full citation, abstract, index terms

This article will describe to the reader the Universal Mobile Telecommunications System (UMTS) packet switched architecture and the UMTS release currently under specification -- Release 2000. The article will discuss the relevant features of the Release 1999 architecture in order to give the reader the background knowledge to understand the Release 2000 IP Multimedia architecture. Aspects of the Release 2000 are described in greater detail when the topic is especially interesting and revolution ...

18 Middleware performance analysis: An experience in evaluating publish/subscribe services in a wireless network

Mauro Caporuscio, Antonio Carzaniga, Alexander Wolf

July 2002 **Proceedings of the 3rd international workshop on Software and performance WOSP '02**

Publisher: ACM Press

Full text available: pdf(180.61 KB) Additional Information: full citation, abstract, references, citings

As wireless technology becomes more available, developers of distributed applications are becoming more interested in how that technology affects the performance of their systems. We have developed a distributed publish/subscribe communication service initially hosted on the standard IP-wired network infrastructure, but would now like to rehost that service onto a GPRS wireless network. This paper reports on our experience in attempting to evaluate the performance of the service using an availab ...

19 Impact of statistical multiplexing on voice quality in cellular networks

Thomas Enderes, Swee Chern Khoo, Clare A. Somerville, Kostas Samaras

April 2002 **Mobile Networks and Applications**, Volume 7 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: pdf(239.13 KB) Additional Information: full citation, abstract, references, index terms

This paper examines the quality of transmission of voice over cellular, packet-switched networks. The medium access mechanism in the uplink is simulated under various statistical multiplexing scenarios in order to assess the effect of front-end clipping on voice quality. Moreover, the simulation is implemented in a real-time demonstration platform utilized to acquire subjective indicators of voice quality by performing Mean Opinion Score (MOS) tests. Results from the MOS tests are reported, and ...

Keywords: cellular networks, speech pattern, statistical multiplexing, voice quality

20 Session 12C: middle agents: Supporting nomadic agent-based applications in the FIPA agent architecture

Mikko Laukkanen, Heikki Helin, Heimo Laamanen

July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 3 AAMAS '02**

Publisher: ACM Press

Full text available: pdf(1.45 MB) Additional Information: full citation, abstract, references, citings, index terms

A high variety of Quality of Service (QoS) in data transmission over wireless networks creates challenges that have not been adequately addressed in today's Internet-based services. Whereas today's distributed applications may result in treating rapid and extreme changes in QoS as failures, in the nomadic environment comprising wireless data communications we consider them as a usual case. Therefore, the complexity of data transmission should be hidden from the nomadic user and applications and ...

Keywords: adaptation, agent communication, nomadic application, software agent, wireless networks

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21 Impact of statistical multiplexing on voice quality in cellular networks

T. Enderes, S. C. Khoo, C. A. Somerville, K. Samaras
August 2000 **Proceedings of the 3rd ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems MSWIM '00**
Publisher: ACM Press

Full text available: pdf(817.16 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper examines the quality of transmission of voice over cellular, packet-switched TDMA networks. The medium access mechanism in the uplink is simulated for different statistical multiplexing scenarios in order to assess the effect of front-end clipping on voice quality. Moreover, the simulation is implemented in a real-time demonstration platform utilized to acquire subjective indicators of voice quality by performing Mean Opinion Score (MOS) tests. The results from the MOS tests are ...

22 CyPhone—bringing augmented reality to next generation mobile phones

Tino Pyssysalo, Tapio Repo, Tuukka Turunen, Teemu Lankila, Juha Röning
April 2000 **Proceedings of DARE 2000 on Designing augmented reality environments DARE '00**
Publisher: ACM Press

Full text available: pdf(6.46 MB) Additional Information: full citation, abstract, references, index terms

We describe a prototype implementation of a future mobile phone called CyPhone. In addition to voice calls, it has been designed to support context-specific and multi-user multimedia services in an augmented reality manner. Context-awareness has been implemented with GPS-based navigation techniques and a registration algorithm, capable of detecting a predefined 3-D model or a landmark in the environment. A new adaptive transport protocol has been developed to support real-time packet-switched ...

Keywords: mobile communication, navigation, networked virtual reality, real-time data transport protocols, registration

23 WAP traffic: description and comparison to WWW traffic

Thomas Kunz, Thomas Barry, James P. Black, Hugh M. Mahoney
August 2000 **Proceedings of the 3rd ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems MSWIM '00**
Publisher: ACM Press

Full text available: pdf(818.77 KB) Additional Information: full citation, abstract, references, citings, index terms

The characteristics of the data traffic generated by the use of micro-browser-enabled PCS phones to gain access to the Web is of particular interest to cellular network operators. Questions such as the frequency and length of browser sessions, and the specific characteristic of the traffic generated, need to be answer by researchers. These answers are valuable in network capacity planning as more subscribers use their cellular phones to interact with the Web.

24 Keep your data safe and available while roaming

Yolanda Villate, Arantza Illarramendi, Evaggelia Pitoura
August 2002 **Mobile Networks and Applications**, Volume 7 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: pdf(314.83 KB) Additional Information: full citation, abstract, references, index terms

The possibility of accessing and/or receiving local or remote data anywhere and at anytime constitutes an important advantage in many business environments. However, when working with mobile devices, users face many problems, such as: (1) *devise exposure problems* --- mobile devices are more vulnerable and fragile than stationary devices, because they can be easily stolen, lost or damaged, (2) *media problems* --- wireless communications are often unstable, asymmetric and expensive, a ...

Keywords: data storage, mobile computing, multi-agents systems, wireless services

25 Mobile and multicast IP services in PACS: system architecture, prototype, and performance

Yongguang Zhang, Bo Ryu
January 2001 **Mobile Networks and Applications**, Volume 6 Issue 1
Publisher: Kluwer Academic Publishers
Full text available: pdf(299.74 KB) Additional Information: full citation, references, citings, index terms

Keywords: Mobile IP, PACS, cellular network, internet service, multicast

26 An evaluation of quality of service characteristics of PACS packet channel

Behcet Sarikaya, Mehmet Ulema
December 1999 **Mobile Networks and Applications**, Volume 4 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: pdf(212.95 KB) Additional Information: full citation, abstract, references, index terms

A novel application on the recently emerging wireless Personal Communications Systems (PCS) is the multimedia communication. In this paper, we evaluate multimedia communications capability and quality of service characteristics of one of the PCS standards, Personal Access Communications Systems's (PACS) packet channel (PPC) using simulation modeling. The performance of PPC's slot aggregation and data-sense multiple access techniques are studied by considering the downlink and uplink in a si ...

27 Acknowledgment procedures at radio link control level in GPRS

May 2001 **Wireless Networks**, Volume 7 Issue 3
Publisher: Kluwer Academic Publishers
Additional Information: full citation, abstract, references, index terms, review

In this paper, we investigate the acknowledgment procedures used at radio link control level in General Packet Radio Service (GPRS). The GPRS is a new GSM service, which is currently being standardized by ETSI for GSM Phase 2+ and it provides packet switched data services over GSM network resources. The role of acknowledgment procedures is to assure the delivery of packets on GPRS radio interface. This paper gives a brief description of GPRS radio interface with a special attention to the Radio ...

Keywords: ARQ protocols, protocol performance and personal communications systems,

wireless communication networks, wireless data and multimedia service

28 L2imbo: a distributed systems platform for mobile computing

Nigel Davies, Adrian Friday, Stephen P. Wade, Gordon S. Blair

August 1998 **Mobile Networks and Applications**, Volume 3 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: pdf(403.96 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Mobile computing environments increasingly consist of a range of supporting technologies offering a diverse set of capabilities to applications and end-systems. Such environments are characterised by sudden and dramatic changes in the quality-of-service (QoS) available to applications and users. Recent work has shown that distributed systems platforms can assist applications to take advantage of these changes in QoS and, more specifically, facilitate applications to adapt to their environme ...

29 Papers: Cellular IP: a new approach to Internet host mobility



András G. Valkó

January 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(1.35 MB) Additional Information: full citation, abstract, references, citings

This paper describes a new approach to Internet host mobility. We argue that by separating local and wide area mobility, the performance of existing mobile host protocols (e.g. Mobile IP) can be significantly improved. We propose Cellular IP, a new lightweight and robust protocol that is optimized to support local mobility but efficiently interworks with Mobile IP to provide wide area mobility support. Cellular IP shows great benefit in comparison to existing host mobility proposals for environm ...

30 Performance evaluation of packet data services over cellular voice networks

Young Yong Kim, San-qi Li

May 1999 **Wireless Networks**, Volume 5 Issue 3

Publisher: Kluwer Academic Publishers

Full text available: pdf(163.57 KB) Additional Information: full citation, abstract, references, index terms

In this paper we develop a Markov chain modeling framework for throughput/delay analysis of data services over cellular voice networks, using the dynamic channel stealing method. Effective approximation techniques are also proposed and verified for simplification of modeling analysis. Our study identifies the average voice call holding time as the dominant factor to affect data delay performance. Especially in heavy load conditions, namely when the number of free voice channels becomes mome ...

31 GIP: an infrastructure for mobile intranets development



Constantinos F. Grecas, Sotirios I. Maniatis, Iakovos S. Venieris

July 2001 **Proceedings of the first workshop on Wireless mobile internet WMI '01**

Publisher: ACM Press

Full text available: pdf(566.62 KB) Additional Information: full citation, abstract, references, citings, index terms

The GPRS and UMTS specifications define the procedures supporting the mobility and the data sessions of a mobile user moving within the area of the corresponding PLMNs. For the case, though, of mobile users working in group, using a PLMN infrastructure, the aforementioned networks foresee no special treatment. However, services tightly related to a specific geographic area, like for example security or surveillance services, could be implemented by a group of collaborating Mobile Nodes f ...

Keywords: GPRS, UMTS, mobile intranet

32 A data request scheduling policy for PCS networks

Wen-Nung Tsai, Yi-Bing Lin

October 1997 **Mobile Networks and Applications**, Volume 2 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: pdf(291.41 KB) Additional Information: full citation, abstract, references, index terms, review

This paper proposes a scheduling policy called latest preempted, earliest resumed (LPER) for personal communications services (PCS) systems that support voice services as well as the circuit mode data services. The policy gives priority to the voice services over the data services. The scheduling of voice requests is performed as if no data requests exist. Thus, if no idle channel is available when a voice request arrives, a data channel (if exists) is interrupted and the channel will be us ...

33 Tools and Methodologies: Simulation tools for advanced signal processing in UMTS systems

Dania Marabissi, Marco Michelini, Luca Simone Ronga

September 2002 **Proceedings of the 5th ACM international workshop on Modeling analysis and simulation of wireless and mobile systems MSWiM '02**

Publisher: ACM Press

Full text available: pdf(317.64 KB) Additional Information: full citation, abstract, references, index terms

Link-level simulations are essential in the design of UMTS communication systems. The large number of inter-dependent variables makes it impossible to derive easy design steps without an efficient modeling of the environments and the implemented reception schemes. In this paper, a novel tool for UMTS design is presented. The tool includes a fast C++ simulation engine and a complete 3GPP library to model the uplink transmission chain. As an example, a series of Monte Carlo performance simulations ...

Keywords: 3G-simulation environment, CDMA advanced receivers, DSP system design, code division multiple access (CDMA), fading channel models, multirate systems, object oriented simulation tool

34 WIRE^3: Driving Around the Information Super-Highway

Stuart Goose, Safia Djennane

January 2002 **Personal and Ubiquitous Computing**, Volume 6 Issue 3

Publisher: Springer-Verlag

Full text available: pdf(390.94 KB) Additional Information: full citation, abstract, citings, index terms

Interactive voice browsers offer an alternative paradigm that affords ubiquitous mobile access to the WWW using a wide range of consumer devices. This technology can facilitate a safe, "hands-free" browsing environment that is of importance both to car drivers and various mobile and technical professionals. This paper describes the challenges of architecting an interactive voice browser that combines digital audio with the features of a speech synthesizer to make structural elements ...

35 Special features: PCCA standards for wireless networks

Peter Rysavy

April 1999 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 3 Issue 2

Publisher: ACM Press

Full text available: pdf(456.28 KB) Additional Information: full citation

36 IP paging service for mobile hosts

Ramachandran Ramjee, Li Li, Tom la Porta, Sneha Kasera

September 2002 **Wireless Networks**, Volume 8 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: pdf(285.76 KB) Additional Information: full citation, abstract, references, citings, index terms

In wireless networks, mobile hosts must update the network with their current location in order to get packets delivered. Paging facilitates efficient power management at the mobile host by allowing the host to update the network less frequently at the cost of providing the network with only approximate location information. The network determines the exact location of a mobile host through paging before delivering packets destined to the mobile host. In this paper, we propose the concept of pag ...

Keywords: Hawaii, IP, domain paging, mobility, paging

37 Session 1: A diary study of rendezvousing: implications for position-aware computing and communications for the general public

Martin Colbert

September 2001 **Proceedings of the 2001 International ACM SIGGROUP Conference on Supporting Group Work GROUP '01**

Publisher: ACM Press

Full text available: pdf(307.98 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents a diary study of rendezvousing as performed by university students. The study suggests that endezvousing frequently does not occur exactly as planned, but this is not necessarily problematic. It also reveals that 'problem' rendezvous were attributed more frequently to modes of travel, over-running of previous activities and lack of information about other rendezvousers, than to lack of information about travel, or local geography. These, and other, findings have implications ...

Keywords: diary study, mobile, performance, personal computing and communications, position-awareness, rendezvousing

38 IP paging service for mobile hosts

R. Ramjee, L. Li, T. La Porta, S. Kasera

July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking MobiCom '01**

Publisher: ACM Press

Full text available: pdf(355.04 KB) Additional Information: full citation, abstract, references, citings, index terms

In wireless networks, mobile hosts must update the network with their current location in order to get packets delivered. Paging facilitates efficient power management at the mobile host by allowing the host to update the networkless frequently at the cost of providing the network with only approximate location information. The network determines the exact location of a mobile host through paging before delivering packets destined to the mobile host. In this paper, we propose the concept of p ...

39 Tempus fight and the need for an e-social contract

James Kaufman, Joann Ruvolo, Daniel Ford

May 2001 **Proceedings of the fifth international conference on Autonomous agents AGENTS '01**

Publisher: ACM Press

Full text available: pdf(114.22 KB) Additional Information: full citation, abstract, references, citings, index terms

For autonomous agents to achieve their full potential they require access to detailed private information. The time is rapidly approaching when we can build systems to gather this information and monitor all aspects of an individual's life. In this paper we describe Tempus Fugit (Time Flies), an attempt to create just such a system. The reality of this technology has enormous social implications and, misused, it creates direct threats to liberty. We further describe an "e-Social Contr ...

Keywords: active calendar, agent, calendar, personal information management system, social contract

40 An overview of the University of Texas at Dallas' center for advanced telecommunications systems and services (CATSS)

Imrich Chlamtac, Stefano Basagni, Stephen Gibbs

April 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 2
Publisher: ACM Press
Full text available: pdf(816.71 KB) Additional Information: full citation, abstract, index terms

The University of Texas at Dallas' Center for Advanced Telecommunications Systems and Services (CATSS) was founded in January 1998 to satisfy the acute needs of the growing Dallas/Richardson telecommunications industry. Its mission is to foster a strong Industry-University partnership to advance local telecommunications industries to the next generation of systems and products. Composed of UTD faculty and industry researchers and managers, the Center's focus is exclusively telecommunications-rel ...

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41 A call admission and control scheme for quality-of-service (QoS) provisioning in next generation wireless networks

S. K. Das, R. Jayaram, N. K. Kakani, Sanjoy K. Sen
January 2000 **Wireless Networks**, Volume 6 Issue 1
Publisher: Kluwer Academic Publishers

Full text available: pdf(201.98 KB) Additional Information: full citation, abstract, references, citings, index terms

We propose a framework for quality‐of‐service (QoS) provisioning for multimedia services in next generation wireless access networks. This framework aims at providing a differentiated treatment to multimedia traffic flows at the link layer, which can be broadly classified as real‐time (or delay‐sensitive) and non‐real‐time (or delay‐tolerant). Various novel schemes are proposed to support the differential treatment and guarant ...

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Acknowledgment procedures at radio link control level in GPRS

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↑ ABSTRACT

In this paper, we investigate the acknowledgment procedures used at radio link control level in General Packet Radio Service (GPRS). The GPRS is a new GSM service, which is currently being standardized by ETSI for GSM Phase 2+ and it provides packet switched data services over GSM network resources. The role of acknowledgment procedures is to assure the delivery of packets on GPRS radio interface. This paper gives a brief description of GPRS radio interface with a special attention to the Radio Link Control and Medium Access Control (RLC/MAC) layer procedures. Particularly, the acknowledgment parameters and operations are described and their performance is evaluated. The delay introduced by acknowledgment procedures is studied analytically. In order to ameliorate the performance of RLC acknowledgment mechanism, we propose and describe a new additional hybrid FEC/ARQ mechanism, which can operate with the current one. The purpose of new mechanism is to decrease the number of control blocks used for RLC acknowledgment mechanism and thus reduces the delay requested for a packet delivery. After presenting the channel models used, we evaluate by simulation the performance of acknowledgment procedures presented in ETSI specifications and the proposed one over a stationary channel model and over a noisy wireless channel model affected by burst of errors.

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Note: OCR errors may be found in this Reference List extracted from the full text article. ACM has opted to expose the complete List rather than only correct and linked references.

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↑ INDEX TERMS

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Keywords:
ARQ protocols, protocol performance and personal communications systems, wireless communication networks, wireless data and multimedia service

↑ REVIEW

"Christoph F. Strnadl"

Specialists in the field of mobile communications, especially the Global System for Mobile Communication (GSM), the global cellular networking standard of European origin, are the intended audience for this paper. The authors present an alternativ *more...*

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is selected taking the QoS profile and **NSAPI** value into account. The existing TETRA higher protocol layers (upper MAC, **LLC** and **SNDCP**) have ...
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